**DOCKET NO.: ISIS-2202 Application No.: 08/884,873** 

Office Action Dated: June 16, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1 (canceled)

2 (previously presented). The mixture of claim 33 comprising at least ten chemical compounds.

3 (previously presented). The mixture of claim 33 comprising at least fifteen chemical compounds.

4 (previously presented). The mixture of claim 33 wherein said chemical compounds are within 20 mole percent of equimolarity in said mixture.

5-6 (canceled)

7 (previously presented). The mixture of claim 33 wherein at least one of the functionalizable atoms on said heterocyclic scaffold is nitrogen, oxygen, or sulfur.

8-32 (canceled)

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33 (currently amended). A mixture comprising a set of at least six chemical compounds having a common heterocyclic scaffold bearing functionalizable atoms, wherein said set of compounds is represented by the one of structures structure:

## wherein:

each tether moiety T is  $\underline{-NHR^1NH}$ ,  $\underline{-NH(R^1)O}$ ,  $-NHR^2NH$ ,  $-NHR^2SO_2NH$ ,  $-NHR^1$ ,  $-N(R^4)_2$ , -N=N, O, S, Se,  $-P(=O)(O)_2$ , NH, OR<sup>2</sup>, OR<sup>3</sup>, malonato, pyrrolidinyl, piperidinyl, piperazinyl, morpholino, imidazolyl, pyrrolyl, pyrazolyl, indolyl, 1H-indolyl,  $\alpha$ -carbolinyl, carbazolyl, phenothiazinyl, phenoxazinyl, tetrazolyl, or triazolyl;

 $R^1$  is alkylene;  $R^2$  is aryl;  $R^3$  is H or  $C_1\text{-}C_{10}$  alkyl;  $R^4$  is alkyleneoxy; and

each chemical substituent L is, independently,  $C_1$ - $C_{10}$  alkyl, substituted  $C_1$ - $C_{10}$  alkyl,  $C_2$ - $C_{10}$  alkenyl, substituted  $C_2$ - $C_{10}$  alkenyl,  $C_2$ - $C_{10}$  alkynyl, substituted  $C_2$ - $C_{10}$  alkynyl,  $C_4$ - $C_7$  carbocyclic alkyl, substituted  $C_4$ - $C_7$  carbocyclic alkyl,  $C_4$ - $C_{10}$  alkenyl carbocyclic, substituted  $C_4$ - $C_{10}$  alkenyl

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carbocyclic, C<sub>4</sub>-C<sub>10</sub> alkynyl carbocyclic, substituted C<sub>4</sub>-C<sub>10</sub> alkynyl carbocyclic, C<sub>6</sub>-C<sub>14</sub> aryl,

substituted C<sub>6</sub>-C<sub>14</sub> aryl, heteroaryl, substituted heteroaryl, a nitrogen, oxygen or sulfur containing

heterocycle, a substituted nitrogen, oxygen or sulfur containing heterocycle, a mixed heterocycle,

or a substituted mixed heterocycle; wherein each of the substituent groups is selected from a group

consisting of alkyl, alkenyl, alkynyl, aryl, hydroxyl, alkoxy, benzyl, nitro, thiol, thioalkyl, thioalkoxy

and halo; or L is, independently, phthalimido, an ether having 2 to 10 carbon atoms and 1 to 4

oxygen or sulfur atoms, hydrogen, halogen, hydroxyl, thiol, keto, carboxyl, NR<sup>1</sup>R<sup>2</sup>, CONR<sup>1</sup>, amidine,

guanidine, glutamyl, nitro, nitrate, nitrile, trifluoromethyl, trifluoromethoxy, NH-alkyl, N-dialkyl,

O-aralkyl, S-aralkyl, NH-aralkyl, azido, hydrazino, hydroxylamino, sulfoxide, sulfone, sulfide,

disulfide, silyl, a nucleosidic base, an amino acid side chain, or a carbohydrate.

34-36 (canceled)

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